

Dr. BHUSHAN R. RANE
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Professor and HOD
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Academic Profile	
Ph.D.	: A degree of PhD was awarded in May 2013 by Jodhpur National University, Jodhpur, RJ (2009-2013).
M. Pharm.	: Conceded First class from Department of Pharmacy, Annamalai University, Chidambaram, Tamilnadu, (2005-2007)
B. Pharm.	: Conceded First class from R. C. Patel, College of Pharmacy Shirpur, Affiliated to North Maharashtra University, Jalgaon. (2003-2005)
D. Pharm.	: Conceded First class from NTVS, Institute of Pharmacy, Nandurbar, Affiliated to MSBTE, Mumbai. (2000-2002)
HSC	: Conceded Second class from Maharashtra State Board, Nasik. (2000)
SSC	: Conceded First class from Maharashtra State Board, Nasik. (1998)

Thesis/ Dissertation	
Research/ Projects	<ul style="list-style-type: none"> • Ph.D. Research Title: "Floating Microcarriers for Delivery of Antidiabetic Drug, Formulation, In -Vitro Characterization and In- Vivo Evaluation" Under the guidance of Dr. Jayvadan K. Patel, Principal, Nootan College of Pharmacy, Visnagar, Gujarat. • M. Pharm. Research Title: "Process Validation of Theophylline Sustained Release Tablet" at Healthy life Pharma Pvt. Ltd. Boisar, Guided by Mr. D. Raghupratap, Reader, Dept. of Pharmacy, Annamalai University, Chidambaram, Tamilnadu. • B. Pharm Project Title (Review): "Liposomes: A Novel Approach of Drug Delivery System" at R. C. Patel College of Pharmacy, Shirpur, Dhule, Maharashtra.

Research Grants	
Principal Investigator	<ul style="list-style-type: none"> • Under the MODROB Scheme Rural Area Received the grant of Rs. 1234392.00, F.No.84-139/RIFD/MODROB/Rural Policy-1/2019-20; 2019-20, 16 May 2019
Principal Investigator	<ul style="list-style-type: none"> • Under the Minor Research Scheme, University of Mumbai - Received the grant of Rs. 25000.00 on Topic "Formulation of Nanoparticulate system based Nanogel for Topical Application and its In-vitro Evaluation", 2019-20; Sanctioned No. 431; APD/ICD/2019-20/762; 17 March, 2020
CO Investigator	<ul style="list-style-type: none"> • Under the Minor Research Scheme, University of Mumbai - Received the grant of Rs. 50000.00 on Topic "Development of fermented formulation of herbal drug for its antioxidant activity", 2019-20; Sanctioned No. 436; APD/ICD/2019-20/762; 17 March, 2020
Principal Investigator	<ul style="list-style-type: none"> • Under the Minor Research Scheme, University of Mumbai - Received the grant of Rs. 25000.00 on Topic "Formulation of novel ultra-deformable vesicular system: <i>In vitro</i> characterization", 2016-17-Sanctioned No. 613; APD/237/16/2017; 13 January 2017
CO Investigator	<ul style="list-style-type: none"> • Under the Minor Research Scheme, University of Mumbai - Received the grant of Rs. 15000.00 on Topic "Formulation and evaluation of novel chocolate formulation of herbal immunomodulators", 2016-17-Sanctioned No. 618; APD/237/16/2017; 13 January 2017

Profile Link	
<p>ORCID ID: https://orcid.org/my-orcid?orcid=0000-0002-1482-1884</p> <p>SCOPUS ID: http://www.scopus.com/inward/authorDetails.url?authorID=36605106000</p> <p>Google Scholar ID: https://scholar.google.com/citations?user=WjtAHH0AAAAJ&hl=en</p> <p>Research Gate ID : https://www.researchgate.net/profile/Bhushan-Rane-2?ev=hdr_xprf</p> <p>SciProfiles: 2876822</p> <p>LinkedIn Profile: https://www.linkedin.com/in/dr-bhushan-rane-3533a249?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app</p> <p>Vidwan Profile URL: https://vidwan.inflibnet.ac.in/profile/178982</p>	
h-index	18
i10-index	29
Citations	1493

Grants - Industry or Institute Project	
Principal Investigator Principal Investigator	<ul style="list-style-type: none"> Received the grant of Rs. 72500.00 from Shodh Advantech, Aurangabad on Topic "Development and evaluation of Novel Liquisolid compacts", 2020-21. Received the grant of Rs. 15000.00 from PAT Pharmaceuticals, Panvel. on Topic "<i>In vitro</i> evaluation of Herbal formulations (Finished Product - Solid dosage forms)", 2020-21. Received grant of Rs. 2500.00 from Terena Dental College, Nerul, Navi Mumbai, on topic "Coating of sutures by using Alovera powder" 2021-22. Received grant of Rs. 5000.00 from Terena Dental College, Nerul, Navi Mumbai, on topic "Preparation of Nanopropolis using 24G angulated cannula syringe" 2024-25. Received grant of Rs. 12500.00 from Terena Dental College, Nerul, Navi Mumbai, on topic "Preparation and evaluation of gel" 2024-25.

Consultancy Services- Rupees more than 5 Lakhs
<ul style="list-style-type: none"> Measurement of viscosity of various samples by using Brookfield viscometer Preparation of nanoparticle by using High pressure homogenizer Panda plus 2000 Preparation of Nano formulation by using High speed homogenizer Ika Ultraturrax T25 Optimization of Formulations by using DOE software Compression of tablets using Kambert Tablet press machine- B tooling IPQC study of some formulations by PAT Pharma, Dhutpapeswar, Croda etc. Completed some minor projects on evaluation of formulations, of PG students of Terena Dental College, Navi Mumbai

IPR:- Patents -3
<ul style="list-style-type: none"> ➤ South Africa Patent application number 2023/01981, Cbr Date 17/05/2023; pH sensitive polyelectrolyte complex composition for sustained delivery of acid susceptible drug its preparation method thereof. (Granted) ➤ Indian Patent application number 374872-001, Cbr Date 30/11/2022; For design of Wearable personal health, activity and lifestyle tracking device health monitoring system. (Granted) ➤ Indian Patent application number 349972-001, Cbr Date 22/09/2021; For design of Liquid chromatography Apparatus for separation of chemical components on the basis of polarity. (Granted)

Working Experience: - 16.7 yrs upto 31 st December 2023
<ul style="list-style-type: none"> ➤ Working as a Professor (Institute Level) in Shri D. D. Vispute College of Pharmacy & Research Center Panvel, From 1st October 2017 - to till date ➤ Worked as an Associate Professor in Shri D. D. Vispute College of Pharmacy & Research Center

Panvel, From **1st April 2016 – 30th September 2017**

- Worked as an Assistant Professor in P. S. G. V. P. Mandal's College of Pharmacy Shahada, Dist-Nandurbar From **13 June 2007- 31 March 2016** (8.10 Years including at PG level)

Approvals

- ❖ Approved **PHD Guide** in subject Pharmaceutics by Mumbai University Ref No. Thesis/ICD/2023-24/850 Dated: 20/06/2023. Effective from 31st March 2023.
- ❖ Approved **PG Teacher in subject Quality Assurance** by Mumbai University Ref No. RAPC/ICD/2024-25/1453 Dated: 27/11/2024. Effective from 3rd September 2024.
- ❖ Approved **PG Teacher in subject Pharmaceutics** by Mumbai University Ref No. PG/ICD/2016-17/1750 Dated: 29/09/2016. Effective from 7th September 2016.
- ❖ Approved **Associate Professor** in subject Pharmaceutics by Mumbai University Effective from April, 2016. Ref No. TAAS (CT)/ ICD/ 2016-17/56550 Dated: 28/06/2016
- ❖ Approved **Assistant Professor** in subject Pharmaceutics by North Maharashtra University, Ref No. NMU/18/410/ 2009, Dated: 16/21 April 2009.
- ❖ Approved **PG Teacher in subject Pharmaceutics and Quality Assurance** by North Maharashtra University, Ref No. NMU/11/PGR/Pharmacy/1410/2012, Dated: 28 June 2012.
- ❖ Approved **FDA Chemist** for testing of Pharmaceuticals, and raw materials, Effective from 2021.

Appointments

- Member of Board of studies (BOS Member Ad-hoc 1 Year) B. Tech Cosmetics NMU, Jalgaon
- Member of Local Inspection Committee at University of Mumbai.
- Member of Local Inspection Committee at NMU, Jalgaon.
- Member of Thesis advisory Committee (TAT) Ph.D. At NMIMS, Mumbai
- Appointed as Examiner by SPPU, Pune for PHD dissertation evaluation
- Appointed as Project evaluator, Paper Setter by DY PATIL University, Navi Mumbai for UG dissertation evaluation.
- Appointed as Chairman and paper setter at DY PATIL University, Navi Mumbai for PG and PHD exam
- Appointed as Chairman and paper setter at NMU Jalgaon for UG and PG subjects
- Appointed as Senior supervisor by NMU, Jalgaon
- Appointed as Examiner by NMU, Jalgaon for PG dissertation evaluation.
- Appointed as Examiner by NMU, Jalgaon for UG and PG examinations
- Appointed as Examiner by University of Mumbai, for UG and PG examinations
- Appointed as Examiner by University of Pune, for PG dissertation evaluation.
- Appointed as Examiner by Amravati University, for PG dissertation M. Tech. Cosmetics evaluation.
- Appointed as Member of Flying Squad by NMU, Jalgaon.
- Appointed as Chairman and member of Unfair means and Flying Squad by Mumbai University, Mumbai.
- Quality manager at ASRCTL, New Panvel Since July, 2017 to Dec 2020, Successfully faced NABL audit ISO:IEC 17025:2005 Audit with Zero nonconformity; also faced Desktop Surveillance audit successfully.
- Appointed as PCI Inspector by Pharmacy Council of India, New Delhi.

Invited as guest/ Resource person/ Speaker/ Judge

- Invitation as a 'Judge' for 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) CHM College, 2024
- Invited as Resource person at FDP organized by Shivajirao Jondhale College of Pharmacy, Asangaon. 2023
- Invited as Judge at First National Level Research Poster Presentation organized by NCRD'S Sterling IOP, Nerul. 2023
- Invited as Speaker at Orientation program through Online mode organized by Shri Sant Gajanan Maharaj College of Pharmacy, Sagwan, Buldhana. 2023
- Invited as Speaker at National Level Online Symposium organized by Yaswantrao Bhonsale COP, Sawantwadi in Collaboration with APTI MS Branch. 2022

- Invited as Speaker at National Level Online FDP sponsored by HRDC CELL & SF Pune University at GES's Sir Dr. M. S. Gosavi COPER, Nashik. 2020
- Invited as Judge at State Level Poster Presentation sponsored by MSBTE at DY PATIL, IOP, Nerul 2019
- Invited as Judge at State Level Poster Presentation sponsored by MSBTE at NCRD'S Sterling IOP, Nerul. 2019
- Invited as Resource person at FDP sponsored by AICTE at P.S.G.V.P. Mandal's, IOP, Shahada 2018
- Invited as Resource person at One day Seminar sponsored by NMU Jalgaon at Prof. Ravindra Nikam COP, Dhule. 2020
- Invited as Speaker at SDP sponsored by MSBTE at P.S.G.V.P. Mandal's, IOP, Shahada 2009
- Invited as guest speaker at P.S.G.V.P. Mandal's, B. ED college, Shahada 2011.

Reviewer panel

- Reviewer for journal published by Informa Healthcare "Pharmaceutical Technology & Drug Development"
- Reviewer for IGI Global publisher Online books, *Taylor & Francis*, group.
- Reviewer for Apple academic Press publisher Online books, *Taylor & Francis*, group.
- Reviewer for Journal "Asian Journal of Pharmaceutics" Bentham publications
- Reviewer for Journal "Journal of Drug Delivery Science and Technology" Elsevier Science direct
- Reviewer for Journal "Current Drug Delivery" & "Current Analytical Chemistry"
- Reviewer for Journal "Journal of Pharmaceutical Research International"
- Reviewer for Journal "British Food Journal"
- Reviewer for Journal "Nano Biomedicine and Engineering"
- Reviewer for Journal "Naunyn-Schmiedeberg's Archives of Pharmacology"
- Reviewer for Journal "Archives of Dermatological Research"
- Reviewer for Journal "IJPER"
- Reviewer for Journal "IJPSN"
- Reviewer for Journal "Natural Resources for Human Health"
- Reviewer for Journal "Journal of Applied Pharmaceutical Research"
- Reviewer for Journal "Next Nanotechnology"
- Reviewer for Journal "BioNanoScience"
- Reviewer for Journal "Journal of Applied Pharmaceutical Science"
- Reviewer for Book "Novel Drug Delivery Systems" published by Bentham Science
- Reviewer for Journal "International Journal of Polymeric Materials and Polymeric Biomaterials"
- Reviewer for Journal "Chemistry select"
- Reviewer for "Discover Pharmaceutical Sciences"
- Reviewer for "Current Gene Therapy"
- Reviewer for "Cureus Journal of Medical Science"
- Reviewer for "Current Pharmacogenomics and Personalized Medicine"
- Reviewer for "Drug Delivery Letters"
- Reviewer for "Biomedical Materials & Devices"
- Reviewer for "Journal of Pharmaceutical Innovation"
- Reviewer for "Scientific Reports"

Holding position

- IQAC Co-Ordinator since October, 2020 at SDDVCOPRC, Panvel
- HOD of Pharmaceutics Department since April, 2016 at SDDVCOPRC, Panvel
- HOD of Pharmaceutics Department for 8.10 Years at P.S.G.V.P. Mandal's, College of Pharmacy, Shahada
- Ph.D. Coordinator for Ph.D. in Pharmaceutics from 2024 at SDDVCOPRC, Panvel
- Academic in-charge of PG department since April 2016, at SDDVCOPRC, Panvel
- Academic in-charge of PG department for 6 Years, at P.S.G.V.P. Mandal's, College of Pharmacy, Shahada.
- Co-Coordinator of NBA committee at P.S.G.V.P. Mandal's, College of Pharmacy, Shahada during NBA visit and successfully got the NBA Accreditation to College.

- Team member of magazine committee at P.S.G.V.P. Mandal's, College of Pharmacy, Shahada.
- Appointed as in charge for various committees as a part of academic such as Research, Exam, Library, Cultural, SMS facility and publicity in-charge etc. at college level
- APTI College coordinator and APTI core team member Mumbai region.

Organizing events

- **Organizing secretary** of 2nd Pharmair International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- **Chief Coordinator** of conference on Topic "Recent Advances in Polymer Science" Sponsored by AUPPC State Branch organized by P.S.G.V.P. Mandal's, College of Pharmacy, Shahada, 2012
- **Co-Coordinator** of conference on Topic "Nanotechnology" Sponsored by APTI State Branch organized by P.S.G.V.P. Mandal's, College of Pharmacy, Shahada, 2009
- Committee member of different seminars and conferences organized at college level.

As PhD guide Pharmaceutics

Guidance: 6 Pursuing, *University of Mumbai*

As PG guide Pharmaceutics and QA

Guidance: M. Pharm-59 Guided (Pharmaceutics- 51; Quality Assurance - 08), **05** (Pursuing)
University of Mumbai- 38 (PH- 33, QA- 5)
North Maharashtra University- 22 (PH- 14, QA- 8)

Membership

- Association of Pharmaceutical Teachers of India. (APTI)
- Indian Pharmaceutical Graduate Association. (IPGA)
- Registered Pharmacist, (State Pharmacy Council of India) MS branch

Books and Chapters published

Books:-

- 1) "A Glimpse of novel vesicular drug delivery system" Published by Nirali Publishers, Pune, 1st Edition, 2017.
- 2) "Pharmaceutical Engineering" Published by Nirali Publishers, Pune, 1st Edition, 2018.
- 3) "Practical book of Pharmaceutical Engineering" Published by Nirali Publishers, Pune, 1st Edition, 2018.
- 4) "Integration of Ayurvedic Herbal Medicines into Modern Medicinal Practices" Published by Nirali Publishers, Pune, 1st Edition, 2021.
- 5) "A textbook of Pharmaceutical Biotechnology" Published by Everest Publishing House, Pune, 1st Edition, 2021.
- 6) "Pharmaceutics" First Year D. Pharm. as per PCI Syllabus 2020, Published by Nirali Publishers, Pune, 1st Edition, 2021.
- 7) "Pharmacognosy" Second year D. Pharm. 1st Edition, TARA'S text book series, Birla Publications, Delhi, 2021
- 8) "A textbook of Dietary supplement and Nutraceuticals" Published by Everest Publishing House, Pune, 1st Edition, 2021.
- 9) "Food supplements and Dietary Fibers in Health and Disease" 1st Edition, Apple Academic Press, Book series Advances in nutraceuticals, CRC Press, Taylor and Francis Group, May, 2023.
- 10) Formulation Development and Evaluation of Drug Loaded Nanogel- Niosome published by Scholar Press, Dec, 2021.
- 11) "Nutraceuticals in Cardiac Health Management" 1st Edition, Apple Academic Press, Book series Advances in nutraceuticals, CRC Press, Taylor and Francis Group, August, 2024.
- 12) "Antioxidants as Nutraceuticals" 1st Edition, Apple Academic Press, Book series Advances in nutraceuticals, CRC Press, Taylor and Francis Group, June, 2024.
- 13) "Essentials of Drug Inspector Exam" Published by Nirali Publishers, Pune, 1st Edition, 2024.
- 14) "Elements of Drug Delivery System" Published by Everest Publishing House, Pune, 1st Edition, 2025.

Chapters: -

- 1) "Transfersome and protransfersome: Ultra-deformable vesicular system", Chapter-6 in book "Novel approaches for drug delivery" published by IGI Global, A volume in the Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series, in 2016. (CRC press: Taylor and Francis Group)
- 2) "Liquid crystalline system: A novel approach in drug delivery", Chapter-8 in book "Novel approaches for drug delivery" published by IGI Global, A volume in the Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series, in 2016. (CRC press: Taylor and Francis Group)
- 3) "Aquasomes: A nanocarrier System", Part-II, Chapter-8 in book "Nanoconjugate Nanocarriers for drug delivery" published by Apple Academic Press, Ontario, Canada in 2018. (CRC press: Taylor and Francis Group)
- 4) "Nanocapsule: Recent approach in the field of TDDS" Chapter-11 in book "Nanodispersions for drug delivery" published by Apple Academic Press, Ontario, Canada in 2018. (CRC press: Taylor and Francis Group)
- 5) "Introduction to Nutraceutical and Dietary Supplement", Chapter-3 in book "Nutraceuticals and Dietary Supplements Applications in Health Improvement and Disease Management" published by Apple Academic Press, Ontario, Canada in 2020. (CRC press: Taylor and Francis Group)
- 6) "Naturopathy" Chapter-12 in book "Herbal Product Development Formulation and Applications" published by Apple Academic Press, Ontario, Canada in 2020. (CRC press: Taylor and Francis Group)
- 7) "Novel Approaches In Herbal Formulations", Chapter-2 in book "Enhancing the therapeutic efficacy of herbal drugs" published by IGI Global, Book Series, in 2021. (CRC press: Taylor and Francis Group)
- 8) "Novel Approaches In Nutraceuticals", Chapter-11 in book "Enhancing the therapeutic efficacy of herbal drugs" published by IGI Global, Book Series, in 2021. (CRC press: Taylor and Francis Group)
- 9) "Micro- and Nano-Systems in Transdermal Drug Delivery System" Chapter- 2 in book "Topical and transdermal drug delivery system" published by Apple Academic Press, Ontario, Canada, in 2022. (CRC press: Taylor and Francis Group)
- 10) "Pulmonary Drug Delivery Systems" Chapter- 7 in book "Topical and transdermal drug delivery system" published by Apple Academic Press, Ontario, Canada, in 2022. (CRC press: Taylor and Francis Group)
- 11) "Nanoencapsulated Nasal Drug Delivery System" Chapter- 8 in book "Topical and transdermal drug delivery system" published by Apple Academic Press, Ontario, Canada, in 2022. (CRC press: Taylor and Francis Group)
- 12) "Regulatory Aspects of Drug Development for Dermal Products" Chapter- 10 in book "Topical and transdermal drug delivery system" published by Apple Academic Press, Ontario, Canada, in 2022. (CRC press: Taylor and Francis Group)
- 13) "Beneficial Effect Of Dietary Supplements In Metabolic Induced Obesity" Chapter-12 in book "Metabolic syndrome: Dietary Supplement and Food Ingredients" published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 14) "Pathophysiology and Application of Herbs in Metabolic Syndrome" Chapter-10 in book "Metabolic syndrome: Dietary Supplement and Food Ingredients" published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 15) "Nutraceutical: A Disease Preventive Food And Immunity Booster" Chapter-7 in book Nutraceuticals ad Functional foods in immunomodulators by Springer Nature Verlag, Singapore 1st ed 2022. (*Springer*)
- 16) "Covid-19 Pandemic: Role of Ayurveda For The Prevention And Treatment" - Chapter- 4 in book Covid-19 and Immunomodulation with special emphasis on nutraceuticals and herbal formulation published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 17) "Covid-19- Infection And Recent Investigations And Future Prospects" Chapter- 9 in book Covid-19 and Immunomodulation with special emphasis on nutraceuticals and herbal formulation published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 18) Nutraceuticals & Cancer - Past, Present & Future Chapter- 1 in book Nutraceuticals in cancer prevention management and treatment published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)

- 19) Breast cancer prevention by nutraceuticals Chapter- 6 in book Nutraceuticals in cancer prevention management and treatment published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 20) Ageing and Challenges for Health Chapter 1, in Book "Obesity and Diabetes in Ageing" (Publisher: *Bentham Science*- 2024)
- 21) Introduction to dietary fibers Chapter- 1 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 22) Formulation based approaches for the delivery of food supplements and dietary fibers Chapter- 2 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 23) Role of dietary fibers in Diabetes Chapter- 3 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 24) Role of dietary fibers in CHD Chapter- 5 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 25) Introduction to food supplements Chapter- 7 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 26) Role of food supplements in obesity Chapter- 9 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 27) Role of food supplements in CHD Chapter- 11 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 28) Regulations for Fibers and Food supplements Chapter- 15 in book Food Supplement and dietary fibres in health and disease published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 29) Opportunities and challenges in the development of functional foods and nutraceuticals Chapter- 11 in book Formulation challenges and regulation of nutraceuticals published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 30) Nutraceuticals for cardiovascular health and diseases: Introduction and overview Chapter- 2 in book Nutraceuticals in cardiac Health Management published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 31) Dietary Supplementation and cardiac health Chapter- 11 in book Nutraceuticals in cardiac Health Management published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group)
- 32) Improvement of skin cancer by TDDS chapter 6 in book Novel Nanocarriers for Skin Diseases Advances and Applications published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group).
- 33) Follicular Delivery of Nanocarriers To Improve Skin Disease Treatment Chapter- 7 in book Novel Nanocarriers for Skin Diseases Advances and Applications published by Apple Academic Press, Ontario, Canada in 2022. (CRC press: Taylor and Francis Group) May 2023
- 34) Herbal Supplements and its regulations Chapter- 12 in book HERBALS AS NUTRACEUTICALS published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group)
- 35) Probiotic Role of Nutraceuticals Chapter- 14 in book HERBALS AS NUTRACEUTICALS published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group)
- 36) Essential fruits for nutrition and its beneficial effects on human health Chapter- 2 in book Nutraceuticals fruits for human health published by Nova science publisher, Newyork, USA in 2023. (CRC press: Taylor and Francis Group)
- 37) Efficacy, Safety and Toxicity of Nutraceutical Fruits Chapter- 12 in book Nutraceuticals fruits Overview and Disease Prevention published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group).
- 38) Fruits and foods to improve kids brain health" Chapter 4 in book "Nutraceutical Fruits and Foods

- for Neurodegenerative Disorders" published by Elsevier, USA in 2024.
- 39) Natural Remedies and Nutritional Supplements for Respiratory Disorders Chapter- 12 in book Nutraceuticals in respiratory and pulmonary disease published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group).
- 40) Effects of Functional Foods on Respiratory Disease Prevention and Treatment Chapter- 6 in book Nutraceuticals in respiratory and pulmonary disease published by Apple Academic Press, Ontario, Canada in 2023. (CRC press: Taylor and Francis Group).
- 41) Nanocarriers in cardiovascular diseases Chapter 5 in book Nanocarrier Drug Delivery Systems: Therapeutic and Diagnostic Medicine published by Walter de Gruyter Berlin · Deutschland 2024.
- 42) Recent advances in mesoporous silica nanoparticles Chapter 9 in book Mesoporous Silica Nanoparticles: Drug Delivery, Catalysis, and Sensing Applications by Walter de Gruyter Berlin · Deutschland 2024.
- 43) Role Of Prebiotics in Gut Related Disease Chapter 4 in Nutraceuticals and Gut Health published by Apple Academic Press, Ontario, Canada in 2024. (CRC press: Taylor and Francis Group).
- 44) Nutraceuticals In Management of Gut Cancer Chapter 5 in book Nutraceuticals and Gut Health published by Apple Academic Press, Ontario, Canada in 2024. (CRC press: Taylor and Francis Group).
- 45) Immunity and Prebiotics in Dairy Products Chapter 6 book Nutraceuticals and Gut Health published by Apple Academic Press, Ontario, Canada in 2024. (CRC press: Taylor and Francis Group).
- 46) Polymer based vaccine Chapter-14 in Book "Polymers in Modern Medicine" (Publisher: *Bentham Science*- 2024)
- 47) Nasopulmonary Route Of Drug Delivery Chapter-14 in Book "Novel drug delivery system" (Publisher: *Bentham Science*- 2024)
- 48) Natural Antioxidants as Nutraceuticals Chapter -1 in Book "Antioxidants as Nutraceuticals" 1st Edition, Apple Academic Press, Book series Advances in nutraceuticals, CRC Press, Taylor and Francis Group, June, 2024.
- 49) Antioxidants as Nutraceuticals in the Prevention and Treatment of Cardiovascular Disease Chapter -5 in Book "Antioxidants as Nutraceuticals" 1st Edition, Apple Academic Press, Book series Advances in nutraceuticals, CRC Press, Taylor and Francis Group, June, 2024.
- 50) Herbal medicine Pharmacovigilance in book Pharmacovigilance: A New Approach Towards Medication published by Apple Academic Press, Ontario, Canada in 2025. (CRC press: Taylor and Francis Group).
- 51) Indian Pharmacovigilance Program: Current Advances and Future Prospects in book Pharmacovigilance: A New Approach Towards Medication published by Apple Academic Press, Ontario, Canada in 2025. (CRC press: Taylor and Francis Group).
- 52) Nutrition And Gynecological Cancer: Prevention, Treatment And Recurrence chapter 1 in book Nutrition and Women's Health: Functional Foods, Nutraceuticals, and Integrative Strategies published by Elsevier, USA, 2025.
- 53) Nutrition and Heart Health chapter 14 in book Nutrition and Women's Health: Functional Foods, Nutraceuticals, and Integrative Strategies published by Elsevier, USA, 2025.
- 54) Introduction to Triple Negative Breast Cancer and Precision Medicine Chapter 1 in book Artificial Intelligence-Driven Precision Medicine for Triple Negative Breast Cancer: Innovations and Insights in TNBC Management published by Elsevier, USA, 2025.
- 55) Fundamentals of Artificial Intelligence in Healthcare Chapter 4 in book Artificial Intelligence-Driven Precision Medicine for Triple Negative Breast Cancer: Innovations and Insights in TNBC Management published by Elsevier, USA, 2025.
- 56) Protease Inhibitors in Cancer treatment Chapter 8 "Enzyme Inhibition in Cancer Therapy: Unlocking New Frontiers in Drug Discovery." (Publisher: *Bentham Science*- 2025)

Publications & Presentations

PAPER PUBLICATION

1. Bhushan R. Rane*, Sanskruti Gawade. Transdermal Drug Delivery in Oncology Charting the Road Ahead. Hacettepe University Journal of the Faculty of Pharmacy 45(3), 2025 286-299 Scopus indexed) <https://doi.org/10.52794/hujpharm.1611956>

2. Bhushan R. Rane*, Puja Chaure, Santosh Bhutekar, Sanskruti Gawade, Dinesh Mutkule, Aarti Udmale, Ashish S. Jain Revolutionizing Cancer Therapy With Liposomal Drug Delivery: Recent Advancement. **Current Cancer Therapy Reviews**, (2025). (Scopus indexed)
<https://doi.org/10.2174/0115733947379210250530103826>
3. Bhushan R. Rane*, Vaibhav Patil, Ashish S. Jain, Nanocarrier Breakthroughs: Revolutionizing Cancer Treatment With Nanotechnology. **Current Nanomedicine**, 10, (2025). (Scopus indexed)
<http://dx.doi.org/10.2174/0124054615335110250115053941>
4. Bhushan R. Rane*, Aditi Padave, Ashish S. Jain, Niosomes: A Revolutionary Approach for Skin Cancer Treatment. **Current Nanomaterial**, 15, (2025). (Scopus indexed)
<http://dx.doi.org/10.2174/0124681873335092250115022230>
5. Bhushan Rajendra Rane*, Aditi Prakash Padave, Ashish Suresh Jain. Nano-Encapsulated Ebastine Niosomal Transdermal Nanogel: Qbd Model For Allergy Treatment And Evaluation. **Biology and Life Sciences Forum, MDPI**, 38(1), 9. <https://doi.org/10.3390/blsf2024038009> (Scopus indexed)
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PAPER / POSTER PRESENTATION

1. **In-Vitro Antioxidant activity of Cleordendrum innermi** at IPC, Delhi-2008
2. **"Dendrimers-Multipurpose Nanodevice"**, at state level seminar on "Recent advances in nanocrystalline materials & applications at Dept. of Physics, Presented at PSGVPM's Science College, Shahada, Dist: Nandurbar, Maharashtra. On 6th-7th February 2009.
3. **'Paclitaxel nanoparticles-Recent development in anticancer therapy'**. at state level seminar on "Recent advances in nanocrystalline materials & applications Presented at PSGVPM's Science College, Shahada, Dist: Nandurbar, Maharashtra. On 6th-7th February 2009.
4. **'Carbon nanotubes –Diagnostic agents & Biosensor'**, at state level seminar on "Recent advances in nanocrystalline materials & applications at Dept. of Physics, P.S.G.V.P. M'S, Art, Science & Commerce college, Shahada 2009.
5. **"Preparation and In Vitro Characterization of Repaglinide Floating Alginate Beads"**

Presented at national level seminar on Nanotechnology at PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-20th September 2009.

6. **"Alginate-Based Microparticulate Oral Drug Delivery System for Rifampicin"** Presented at national level seminar on Nanotechnology PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-20th September 2009.
7. **"Dendrimers: A Potential Drug Delivery System"**. Presented at national level seminar on Nanotechnology PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-20th September 2009.
8. **"Lipid vesicles.....A Boon Of Nanotechnology For Delivery Of Sustain And Control Drug Delivery"** Presented at national level seminar on Nanotechnology PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-20th September 2009.
9. **"Formulation and Evaluation of Intragastric Floating Drug Delivery System of Repaglinide"** Presented at AVISHKAR 2009, North Maharashtra University, Jalgaon, Maharashtra on 1st-2nd December 2009.
10. **"Formulation of Captisol Based Novel Dosage Form for Effective Delivery of Irbesartan"** Presented at AVISHKAR 2009 North Maharashtra University, Jalgaon, Maharashtra on 1st-2nd December 2009.
11. **"Hydrotropic Solubilization Technique For Poorly Water Soluble Drug Atorvastatin"** at IPC, Ahmedabad, 2009.
12. **"Ultra Pressure Liquid Chromatography- A Review"** at APTICON, Hyderabad, 2010.
13. **Taste abatement of Rizatriptan benzoate using ion exchange resins**, Presented at national level seminar on Polymer science PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 24th-25th Feb. 2012.
14. **Formulation and evaluation of mouth dissolving films of Diltiazem HCl**, Presented at national level seminar on Polymer science PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 24th-25th Feb. 2012.
15. **Nanoemulsions- an approach to enhance solubility of poorly soluble drugs**, Presented at national level seminar on Polymer science PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 24th-25th Feb. 2012.
16. **A review in rational drug use**; Presented at national level seminar on Currents trends in exp. P'cology PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 14th-15th Feb. 2013.
17. **pH sensitive poly-electrolyte complex**; Presented at NMU "Avishkar-2015" district level poster presentation in Medicine and Pharmacy at P.S.G.V.P. M'S College of Pharmacy, Shahada, 22 Nov. 2015.
18. **Ultra-flexible protransfersome gel of moderately water soluble drug Diclofenac potassium and its characterization**; accepted at IPC, Vishakhapatnam-2016
19. **Formulation and evaluation of protransfersomal vesicular system based gel of Diclofenac potassium**; GES's Sir Dr. M.S.Gosavi COPER, Nashik, 13 Jan. 2018.
20. **Formulation and Development of Novel Gastroretentive Microballoons of Repaglinide**: International Conference -Pharmaceutical Research and Innovation to Tackle Future Health-care Arena Gokhale Education Society's Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research, Nashik-422005 29 Oct. 2021.
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22. **Formulation Development and Evaluation of Transferosomes Nano Gel Loaded with Levocetirizine Transferosomes**: International Conference -Pharmaceutical Research and Innovation to Tackle Future Health-care Arena Gokhale Education Society's Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research, Nashik-422005 29 Oct. 2021.
23. **Niosomal Gel Of Tinidazole For Antibacterial Use: Formulation And Its In Vitro Characterization**, JSS, Academy of higher education and research, Ooty. PharmaNEST 3.E International Conference, 14-15 oct 2022.
24. **Formulation And Evaluation Of Nanosuspension Of Chloramphenicol For Ophthalmic**

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- 25. Formulation and Evaluation of Nanosuspension Loaded Nanogel,** presented at 8th International conference on Intellectual Property Rights held at the Goa College of Pharmacy, Panji on 5th – 6th Dec, 2023
- 26. Formulation Of Niosomal Gel For Transdermal Drug Delivery And Its Evaluation,** Presented at 8th International conference on Intellectual Property Rights held at the Goa College of Pharmacy, Panji on 5th – 6th Dec, 2023
- 27. Design, Development And Evaluation Of Transfersomal Nanogel,** presented at 8th International conference on Intellectual Property Rights held at the Goa College of Pharmacy, Panji on 5th – 6th Dec, 2023
- 28. Formulation And Evaluation Of Niosomal Vesicles Loaded Gel For Transdermal Delivery,** Presented at 8th International conference on Intellectual Property Rights held at the Goa College of Pharmacy, Panji on 5th – 6th Dec, 2023
- 29. Formulation And Evaluation Of Nanoemulsion Loaded Gel For The Treatment Of Pain And Injury,** Presented at 8th International conference on Intellectual Property Rights held at the Goa College of Pharmacy, Panji on 5th – 6th Dec, 2023
- 30. Fabrication Of Gliclazide Nanosuspension And In-Vitro Characterization,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 31. Formulation Of Carbocisteine Loaded Solid Lipid Nanoparticles For The Treatment Of Pulmonary Infections And In Vitro Evaluation,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 32. Design, Development And In Vitro Characterization Of Floating Microparticulate Drug Delivery System,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 33. Fabrication And Characterization Of Beta Sitosterol Loaded Nanosuspension In-Situ Gel For Treatment Of Prostate Cancer,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 34. Fabrication Of Ebastine Loaded Niosomal Transdermal Nanogel For The Treatment Of Allergy And Its Evaluation,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 35. Fabrication And Evaluation Of Amitriptyline Hcl Loaded Nanostructured Lipid Carriers And In-Vitro Characterization,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 36. Bilastine Loaded Transferosome Based Nanogel For The Treatment Of Allergic Reactions: In Vitro Characterization,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 37. Solubility Enhancement Of Febuxostat By Solid Dispersion Using Hydrophilic Carriers,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 38. Formulation And Evaluation Of Co-Crystals To Modulate Physicochemical Parameters Of Drug,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 39. AI's Role In The Diagnosis And Treatment Of Cancer And Healthcare,** presented at 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 40. Fabrication And Evaluation of Nanovesicular Niosomal Gel for The Treatment of**

Periodontitis, presented as Mentor at 18th Aavishkar conducted by University of Mumbai at Dr. Bhanuben Nanavati College of Pharmacy, Vile Parle, Mumbai on December 9, 2023.

41. Formulation and Evaluation of Nanosuspension Loaded Nanogel for Brain Delivery, presented as Mentor at 18th Aavishkar conducted by University of Mumbai at Dr. Bhanuben Nanavati College of Pharmacy, Vile Parle, Mumbai on December 9, 2023.

42. Formulation And Evaluation Of Pirfenidone-Loaded Solid Lipid Nanoparticles To Treat Pulmonary Infections, presented as Mentor at 19th Aavishkar conducted by University of Mumbai at H.K. College of Pharmacy, Oshiwara, Mumbai on December 12, 2024.

43. Formulation and Evaluation of Beta-Sitosterol Nanosuspension-Loaded Gel for the Treatment of Prostate Cancer, presented as Mentor at 19th Aavishkar conducted by University of Mumbai at H.K. College of Pharmacy, Oshiwara, Mumbai on December 12, 2024.

44. Development and Optimization of Polymeric Nanoparticles and their In vitro Characterization, presented as Mentor at 19th Aavishkar conducted by University of Mumbai at H.K. College of Pharmacy, Oshiwara, Mumbai on December 12, 2024.

45. Formulation And Evaluation Of Carbocisteine Loaded Microparticulate System For The Treatment Of Respiratory Infections, presented as Mentor at 19th Aavishkar conducted by University of Mumbai at H.K. College of Pharmacy, Oshiwara, Mumbai on December 12, 2024.

46. Preparation and evaluation of beta sitosterol nanogel a carrier design for targeted drug delivery system, presented as Mentor at Poster presentation completion at UKa Tasadia Univeristy, College of Pharmacy, Bardoli, Gujarat on March 3, 2025.

Conference, Seminar, Workshop & FDP Attended

- 1) National seminar on "Contract Research and Patent Rights" held at Department of Pharmaceutical Engg. and Technology Bharthidasan University, Trichy, Tamilnadu, on 24th Feb. 2006.
- 2) APTI sponsored State Level Scientific Poster presentation for diploma and degree at KVPS, IOP, Boradi, Shirpur, 4-9 Feb. 2008.
- 3) University of Pune sponsored Two Days seminar on "Current Trends in Novel Drug Delivery system" at SSJB, College of Pharmacy, Neminagar, Chandwad. On 3-4 Jan. 2009.
- 4) National seminar on "Nanotechnology: Revolution in the Field of Controlled and Targeted Drug Delivery System" held at PSGVPM's College of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-20th September 2009)
- 5) AICTE sponsored SDP on "Hurdles and challenges in quality control and standardization of herbal pharmaceuticals" held at PSGVPM's Institute of Pharmacy, Shahada, Dist: Nandurbar, Maharashtra on 19th-25th September 2009)
- 6) National seminar on "Recent Advances in Chemical Engineering" 20 March, 2010, at UDCT, NMU, Jalgaon.
- 7) Two days workshop on teaching skills in Physical pharmacy, at NMIMS, SPTM, Shirpur Campus, 4-5 Dec. 2010.
- 8) University of Pune sponsored One Days seminar on "Recent Trends in CDDS", 8 Jan. 2011 at Loknete Dr. J.D. Pawar, Collge of Pharmacy, Manur, Kalwan.
- 9) UGC sponsored One Day Seminar on "The Role of Chemistry in Our Lives" at Department of Chemistry, S.I. Patil Arts, Shahada, on 25th Feb. 2011.
- 10) National conference on "Recent Challenges in Pharmaceutical Sciences & Technology", 19 March 2011, UDCT, NMU, Jalgaon.
- 11) AICTE sponsored SDP on "Recent Advances in Polymer Technology", UDCT, NMU, Jalgaon, on 15-30 June 2011.
- 12) AICTE sponsored Two Days National seminar on "Advances in Drug Delivery Systems: A Potential approach to achieve superlative therapeutic effects", at Nootan Pharmacy College, Visnagar, Gujrat, 9-10 Sep. 2011.
- 13) One Day National Seminar on "Emerging Trends in Cosmeceutical Era", at VES, COP, Chembur, Mumbai, on 7th January 2012
- 14) University of Pune sponsored Two Days seminar on "Recent Trends in NDDS", 8-9 Jan. 2012 at Loknete Dr. J.D. Pawar, Collge of Pharmacy, Manur, Kalwan.

- 15)** ICMR sponsored One day seminar on "Quality control and Regulatory Deliberation of Herbal Drug Development" on 4th Feb.2012, at Shri B.M.Shah, COPER, Modasa ,Gujarat
- 16)** AUPPC Sponsored National Level Seminar on "Recent Advances in Polymer Science" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 24-25 Feb. 2012.
- 17)** AICTE sponsored National level SDP on "Advances in herbal and tribal medicines" at Ali-allana college of pharmacy, Akkalkuwa, 21 May to 3 June 2012.
- 18)** NMU Sponsored two days conference on "Current Trends in Experimental Pharmacology" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 24-25 Feb. 2013.
- 19)** Brookfield sponsored one day national seminar on "Recent trends in pharmaceutical in research: Emphasis on viscosity & texture characterization" at HRPIPER, Shirpur, 15 March 2013.
- 20)** NMU Sponsored one day workshop on "Research Methodology Presentation" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 21 Sep. 2013.
- 21)** NMU Sponsored one day seminar on "Chromatography an effective tool for herbal drug standardization" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 12 April. 2014.
- 22)** CSIR Sponsored two days seminar on "Role of pharma clinic in health care profession of Indian rural area" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 17-18 Oct. 2014.
- 23)** Savitribai Phule Pune University Sponsored one day state level seminar on "Chemistry: Important subject in pharmaceutical sciences" at GES's Sir Dr. M.S.Gosavi COPER, Nashik, 10 Jan. 2015.
- 24)** NMU Sponsored one day workshop on "*In-vitro* & *in vivo* tools and models for the assessment of drug delivery by oral and topical routes" at DCS's ARA, College of Pharmacy, Nagaon, Dhule, 24 Jan. 2015.
- 25)** National workshop on "Industrial and academic perspectives of regulatory affairs" at Ali-allana College of Pharmacy, Akkalkuwa, 10 Feb. 2015.
- 26)** NMU Sponsored one day seminar on "Herbal Cosmetics: A safe and effective approach" at P.S.G.V.P.M'S College of Pharmacy, Shahada, 03 Oct. 2015.
- 27)** MSBTE, Mumbai sponsored state level technical poster presentation on "Recent advances in drug delivery" at P.S.G.V.P.M'S Institute of Pharmacy, Shahada, 2 Jan. 2016.
- 28)** Savitribai Phule Pune University Sponsored one day state level seminar on "NDDS: Innovations in pharmaceutical sciences-Building today the health of tomorrow" at GES's Sir Dr. M.S.Gosavi COPER, Nashik, 19 Jan. 2016.
- 29)** One day national conference on "Structural interpretation of organic compounds" at RCPIPER, Shirpur, 24 September, 2016.
- 30)** Two day training course on GC-MS organized by Shimadzu, Mumbai, 26-27 December, 2016.
- 31)** One Day Seminar on "Let's do NBA accreditation", at VES, COP, Chembur, Mumbai, on 26 February, 2017.
- 32)** General Req. for competence of testing and calibration laboratory & internal audit as per ISO/IEC 17025, IDEMI, Chunabhatti, 16- 19 Jan. 2018.
- 33)** Recent avenues in the field of Pharmaceutical sciences, GES's Sir Dr. M.S.Gosavi COPER, Nashik, 12 &13 Jan. 2018.
- 34)** Pharmazest 2018, Dr. L.H. Hiranandani, COP, Ulhasnagar, 10 February, 2018.
- 35)** "Estimation & Evaluation of total uncertainty", IDEMI, Chunabhatti, 15 & 16 February, 2018.
- 36)** "How to do Literature Survey for Research" Shri D. D. Vispute College of Pharmacy & Res. Center, Panvel, 9th February, 2019.
- 37)** "Application of Design of Experiments (DoE) and Biostatistics in Pharmaceutical Research" SPTM, SVKM'S NMIMS, Ville-Parle, Mumbai, 16th March, 2019.
- 38)** General Req. for competence of testing and calibration laboratory & internal audit as per ISO/IEC 17025:2017, IDEMI, Chunabhatti, 16- 19 Nov. 2019.
- 39)** FDP on Entrepreneurship, Sponsored by DST in collaboration with MCED at SDDVCOPRC, Panvel. 20 Jan. to 2 Feb. 2020
- 40)** FDP on Building research and innovative culture among pharmacy teachers at Dr. D Y Patil Institute Of Pharmaceutical Sciences And Research, Pimpri, Pune. 18 to 22 May

2020.(Online)

- 41) FDP on "Redefining the Role of Educator in Covid -19 Outbreak Era" at Gujarat Technological University, Ahmedabad and Anand Pharmacy College, Anand. 11 to 16 May 2020 .(Online)
- 42) FDP on "Teachers & Ethics: Balance in Research, Teaching, Socio Professional Values and Attitude" Sponsored SF Pune Univeristy and HRDC Cell at GES, Sir, M S Gosavi COPER, Nasik. 20 to 25 May 2020. (Online)
- 43) FDP on "Evolution in Teaching, Guiding Values in Learning and Social Understanding through Research" at GES, Sir, M S Gosavi COPER, Nasik. 15 to 19 September 2020. (Online)
- 44) FDP on Personal Effectiveness at HRPIPER, SHIRPUR, 21 to 25 September 2020. (Online)
- 45) AICTE ISTE SPONSORED STTP-Role of Regulatory Affairs in Pharmaceutical Industry: Current Trends and Future Perspectives" RCPIPER, SHIRPUR, 15 to 20 May 2021. (Online)
- 46) AICTE ISTE SPONSORED -Multidisciplinary and Translational Drug Development "QbD IN PHARMA DEVELOPMENT, Anjuman-I-Islam's Kalsekar Technical Campus, School of Pharmacy, New Panvel, 24 to 29 MAY 2021. (Online)
- 47) "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE), 31May 2021 to 04 June 2021. (Online)
- 48) International Conference -Pharmaceutical Research and Innovation to Tackle Future Health-care Arena, Gokhale Education Society's Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research, Nashik-422005, 27 to 29 September 2021. (Online)
- 49) "One Day national level workshop on Hands on Training LC-MS" Shri D. D. Vispute College of Pharmacy & Res. Center, Panvel, 26th August, 2023.
- 50) 2nd International conference on Pharm 360: Emerging Trends and Future Prospectives in Pharmaceuticals held at the SDDVCOPRC, Panvel on 22nd – 23rd March, 2024.
- 51) FDP on NEP 2020 Orientation & Sensitization under "Malaviya Mission Teacher Training Programme (MM-TTP)" of University Grants Commission (UGC) Organized by UGC -Malaviya Mission Teacher Training Centre (Formerly UGC- Human Resource Development Centre) Savitribai Phule Pune University, Pune -411007 from 23/07/2025 To 31/07/2025

Industrial visit, Training & Project work

- Pilot Test House, Andheri; Cipla, Panvel.; Asai Vishwa, Patalganaga, Panvel; JCPL Jalgaon; HAFFKIN AJANTA Jalgaon; HLPL, Boisar; ASRCTL, Panvel;

Technique Known

- 1) Handling of sophisticated analytical instruments and various formulation related equipments
- 2) Characterization of drug substances
- 3) Stability study as per ICH Guidelines
- 4) Dissolution and Diffusion profile of various formulations
- 5) Preformulation studies of drug
- 6) Design expert software 10.0, 13.0
- 7) PK solver
- 8) DD solver
- 9) Chemdraw
- 10) Clarke's Analysis

Computer Knowledge

- Advanced literature survey using surfing cites
- Use of AI tools
- PFMS software
- Computer fundamental course
- Ms-office
- Software operating

Instrument known and Handling:-

LC-MS-MS, GCMS-MS, ICPOES, UV-Spectrophotometer, FTIR, HPLC, Brookfield Viscometer with helipath spindle, R & D Coating machine, High speed homogenizer, Panda High pressure homogenizer, Rotary evaporator, Dissolution Apparatus, Cooling Centrifuge, Disintegration apparatus, Multi station Compression machine, Roche Fribilator, Eurweka Hardness tester, Photographic microscope, Abbe's refractometer, pH meter, conductometer, Digital Polarimeter, Potentiometer, Colorimeter, Flame photometer, Sonicator, Rotary Shaker and many more....

Personal Information

- **D.O.B.** : 7th December 1983
- **Languages Known** : English, Marathi & Hindi.
- **Email ID** : rane7dec@gmail.com
- **Permanent Address** : Main Road, Nizampur, Tal : Sakri,
District: Dhule, 424305 Maharashtra
- **Contact no.** : +91-9421534437; 9403524049

Reference

- 1) Dr. J. K. Patel, M.Pharm. Ph.D.**
Principal, Nootan College of Pharmacy,
Visnagar, Mehsana, Gujarat.
- 2) Dr. S. J. Surana, M. Pharm. Ph.D.**
Principal, RCPIPER, Shirpur, Dhule,
Maharashtra.

Declaration;

I **Dr. Bhushan Rajendra Rane** hereby declare that all the information provided above is true as per best of my knowledge.

PLACE: New Panvel

DATE:

THANKING YOU

Dr. BHUSHAN R. RANE